

ABSTRACT

A solid state heater uses a heater subassembly employing a terminal block, terminals and a PTCR or NTCR heater. The terminals engage and make electrical contact with the heater, thus eliminating the need for a rigid heater housing. The heater subassembly can be formed into a soft body or rigid body heater for heating purposes. The soft body heater uses a soft casing that envelops the heater subassembly with the casing expanding upon heating to provide a snug fit during use. The heater subassembly can be inserted in the cavity of either a soft body or a rigid body with potting compound filling any remaining voids, and the rigid or soft body can then be used for heating purposes.